Google Cloud Mapping

This document is designed to help financial institutions ("regulated entities") supervised by the Dutch National Bank ("DNB") to consider the <u>Good practices for managing outsourcing risks</u> (the "framework") in the context of Google Cloud Platform ("GCP") and the Google Cloud Financial Services Contract.

We focus on sections 3 - 11 of the framework. For each paragraph, we provide commentary to help you understand how you can address the requirements using the Google Cloud services and the Google Cloud Financial Services Contract.

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B – Good Practices for managing outsourcing risks		
ction 3 (Regulatory requirements)		
Outsourcing of activities to a service provider may not impede supervision of a finan institution. The institution is required to inform the supervisory authority about all material activities outsourced to service providers. All financial institutions are requi to inform DNB about initiatives in the area of cloud computing, regardless of the materiality of said activities. Institutions are required to provide this information to D in time, in order to allow us to examine whether an institution's intended outsourcing meets with prudential objections, and to take the appropriate action if necessary. DN keeps a register of all current outsourcing contracts to cloud services providers. Financial institutions are also required to adequately manage the risks associated w outsourcing to subcontractors.	 to oversee compliance with applicable laws and regulations as well as a regulated entity's internal policies. We will provide regulated entities with the assistance they need to review our Services. NB Nothing in our contract is intended to limit or impede a regulated entity's or the supervisory authority's ability to audit our services effectively. th Google recognizes that regulated entities need to consider the risks associated with subcontracting. To enable regulated entities to retain oversight of any sub-outsourcing and provide choices about the services the regulated entities use, Google will: provide information about our subcontractors; provide advance notice of changes to our subcontractors; and give the regulated entities the ability to terminate if they have concerns about a new subcontractor. 	Go
	entity. To preserve this, Google will ensure our subcontractors comply with the information, access and audit rights we provide to regulated entities and supervisory authorities.	
The outsourcing agreement must include a clause to the effect that supervisory authorities have the right to examine and are given direct access to relevant data an offices if necessary.		Re
	You may access your data on the services at any time. Regulated entities may provide their supervisory authority with access.	
ction 4 (Selection of service providers)		

Google Cloud Financial Services Contract eference		
Enabling Customer Compliance		
Google Subcontractors		
Regulator Information, Audit and Access		

Google Cloud Mapping

#	Framework reference	Google Cloud commentary	Go re
3.	The selection of service providers is preceded by a risk assessment including concentration and legal risks, a due diligence investigation of the provider and the approval of the management board of the institution. The institution must consider the risks and the necessary mitigating measures associated with different scenarios, e.g. one where the external service provider is temporarily or permanently incapable of delivering the services agreed. If financial institutions decide to outsource activities outside the EEA, they should pay extra attention to data protection and effective supervision.	 Google recognizes that you need to conduct due diligence and perform a risk assessment before deciding to use our services. To assist you, we've provided information for each of the areas you need to consider below: Google Cloud has been providing cloud services for over 10 years, assisting customers across the globe in the financial services, healthcare & life science, retail and public sectors to name a few. More information on Google Cloud's capabilities is available on our <u>Choosing Google Cloud</u> page. Google Cloud has been named as a leader in several reports by third party industry analysts. You can read these on our <u>Analyst Reports</u> page. Information about our referenceable customers is available on our <u>Google Cloud Customer</u> page. In addition, our <u>Financial Services Cloud Blog</u> and <u>Financial Services solutions page</u> explains how financial services institutions can and are using Google Cloud to help drive business transformation to support data-driven innovation, customer expectations, and security & compliance. Concentration risk Google recognizes the importance of continuity for regulated entities and for this reason we are committed to data portability and open-source. Refer to our <u>Engaging in a European dialogue on customer controls and open cloud solutions blog post</u> and our <u>Open Cloud page</u> for more information on how Google's approach to open source can help you address vendor lock-in and concentration risk. To manage concentration risk, you can choose to use Anthos to build, deploy and optimize your applications in both cloud and on-premises environments. Anthos provides a platform to develop, secure and manage applications across hybrid and multi-cloud environments. For more information, refer to the IDC Whitepaper on How A Multicloud Strategy Can Help Regulated Organizations Mitigate Risks In Cloud. In addition, Google will enable you to access and export your data throughout the duration of our contract and during th	

Google Cloud Financial Services Contract reference

Data Export (Cloud Data Processing Addendum)

Data Transfers (<u>Cloud Data Processing</u> <u>Addendum</u>)

Data Security; Subprocessors (<u>Cloud Data</u> <u>Processing Addendum</u>)

Data Location (Service Specific Terms)

Google Cloud Mapping

#	Framework reference	Google Cloud commentary	G re
		 <u>Google Kubernetes Engine</u> is a managed, production-ready environment that allows portability across different clouds as well as on premises environments. <u>Migrate for Anthos</u> allows you to move and convert workloads directly into containers in Google Kubernetes Engine. You can export/import an entire VM image in the form of a .tar archive. Find more information on images and storage options on our <u>Compute Engine</u> <u>Documentation</u> page. Refer to Rows 8 and 9 for information about transition and exit planning. Location of services To provide you with a fast, reliable, robust and resilient service, Google may store and process your data where Google or its subprocessors maintain facilities. Information about the location of Google's facilities and where individual GCP 	
		 Information about the location of Google's racinties and where individual GCF services can be deployed is available on our <u>Global Locations page</u>. Information about the location of Google's subprocessors' facilities is available on our <u>Google Cloud subprocessors page</u>. Google provides the same contractual commitments and technical and organizational measures for your data regardless of the country / region where it is located. In particular: 	
		 The same robust security measures apply to all Google facilities, regardless of country / region. Google makes the same commitments about all its subprocessors, regardless of country / region. 	
		Google provides you with choices about where to store your data. Once you choose where to store your data, Google will not store it outside your chosen region(s).	;
		You can also choose to use tools provided by Google to enforce data location requirements. For more information, see our <u>Data residency, operational transparency,</u> and privacy for customers on Google Cloud Whitepaper.	

Google Cloud Financial Services Contract reference

Google Cloud Mapping

#	Framework reference	Google Cloud commentary	(
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Sectio	n 5 (Review of service provider)	•	
4.	n 5 (Review of service provider) During the term of the agreement, financial institutions are required to review the service provider at regular intervals. These reviews must include evaluations of changes at the service provider, e.g. a major change in the ownership structure, the strategy, or the profitability of the service provider. The financial institution must be aware of material developments at the service provider impacting the degree to which the latter complies with its commitments towards its ordering customers.	Service levels You can monitor Google's performance of the Services (including the SLAs) on an ongoing basis using the functionality of the Services. For example: • The Status Dashboard provides status information on the Services. • Google Cloud Operations is an integrated monitoring, logging, and diagnostics hosted solution that helps you gain insight into your applications that run on GCP, including availability and uptime of the services. Reporting Google will make information about developments (including if applicable any change of ownership) that materially impact Google's ability to perform the Services in accordance with the SLAs available to you. More information is available at our Incidents & the Google Cloud dashboard page. Google will notify you of data incident promptly and without undue delay. More information on Google's data incident response process is available in our Data incident response whitepaper. Change of Control Google will provide advance notice to you if it experiences a relevant change in control. Financial Health You can review Google's corporate and financial information on Alphabet's Investor Relations page. This provides information about our mission, business model and	

Google Cloud Financial Services Contract reference

Ongoing Performance Monitoring

Significant developments

Data Incidents (<u>Cloud Data Processing</u> Addendum)

Change of Control

Google Cloud Mapping

#	Framework reference	Google Cloud commentary	Go ret
5.	It is important that financial institutions foster key competences within their own organisation. This enables them to instruct and audit the service provider adequately, and to take direct control of the outsourced activity in a worst-case scenario. The outsourcing institution appoints organisational units or individuals responsible for auditing and managing all outsourced activities.	 You operate the services independently without action by Google personnel. You decide which services to use, how to use them and for what purpose. Therefore you stay in control of the relevant activities. Regulated entities can use the following functionality to control the Services: <u>Cloud Console</u>: A web-based graphical user interface that customers can use to manage their GCP resources. <u>gcloud Command Tool</u>: A tool that provides the primary command-line interface to GCP. A command-line interface is a user interface to a computer's operating system. <u>Google APIs</u>: Application programming interfaces which provide access to GCP. Google provides documentation to explain how customers and their employees can use our services. If a customer would like more guided training, Google also provides a variety of courses and certifications. 	
		• Refer to Row 6 for information about what a cloud transformation means for risk, compliance, and audit functions.	
Sect	ion 6 (Management information)		
6.	Outsourcing may not hamper the institution's management in managing and monitoring its activities. The financial institution must therefore monitor the operational and	Monitoring	Or
	concentration risks accompanying outsourcing of activities. Its risk management function must compile and report management information at least once a quarter.	You can monitor Google's performance of the Services (including the SLAs) on ar ongoing basis using the functionality of the Services.	ו
		For example:	
		• The <u>Status Dashboard</u> provides status information on the Services.	
		• <u>Google Cloud Operations</u> is an integrated monitoring, logging, and diagnostics hosted solution that helps you gain insight into your applications that run or GCP, including availability and uptime of the services.	
		In addition, our <u>Risk and Compliance as Code (RCaC) Solution</u> stack enables compliance and security control automation through a combination of Google Cloud	

Google Cloud Financial Services Contract reference

nstructions

Ongoing Performance Monitoring

Google Cloud Mapping

control effectively the risks associated with all outsourced activities.	#	Framework reference	Google Cloud commentary	C r
accelerate time to value. Through the RCaC solution, customers can introduce automation via IaC (Infrastructure as Code) and PaC (Policy as Code) in the form of blueprints. This lays the foundation of preventative controls. The next level of maturity is detection as code which involves monitoring for (security and compliance) drifts and applying remediations when an out-of-compliance infrastructure is identified. This forms a continuous monitoring loop that helps prevent misconfigurations. Management Our Bisk Governance of Digital Transformation in the Cloud whitepaper can help you understand what a cloud transformation in the Cloud whitepaper can help you understand what a cloud transformation those programs for success in the cloud world. The mechanisms used to secure and control cloud technologies can be substantially different to those used for on-premise technologies. Given that is important that your organization's control functions re-evaluate relevant key controls. In fact, using cloud native controls instead of relying on existing controls will often produce better outcomes because they are designed with cloud in mind. Refer to our Board of Directors Handbook for Cloud Risk Governance and Bisk Governance of Directors Handbook for Cloud Whitepaper for more information, including about how control design and ownership evolves in the cloud. This management information should enable the institution's senior management to control design and ownership evolves in the cloud. N			•	
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control effectively the risks associated with all outsourced activities.			Governance of Digital Transformation in the Cloud whitepaper for more information,	
	7.		See above	M
	Sectio	on 7 (Quality of the agreement)		

Google Cloud Financial Services Contract reference

N/A

Google Cloud Mapping

#	Framework reference	Google Cloud commentary	Go ref
8.	All outsourcing to third parties must be documented in a written agreement. This agreement must include a clear description of the activity to be outsourced. It must also specify the reporting requirements of the service provider. When outsourcing material	The rights and responsibilities of the parties are set out in the Google Cloud Financial Services Contract.	
	activities, the financial institution must include in the agreement a clause that provides for termination and cancellation of the agreement. This enables the financial institution to contract out activities to another service provider, or to accommodate these services in-house.	<u>Service description</u> The GCP services are described on our <u>services summary</u> page.	Det
		Reporting	Sig
		Google will make information about developments that materially impact Google's ability to perform the Services in accordance with the SLAs available to you. More information is available on our <u>Incidents & the Google Cloud dashboard</u> page.	
		In addition, Google will notify you of data incidents promptly and without undue delay. More information on Google's data incident response process is available in our <u>Data</u> incident response whitepaper.	Dat Ad
		<u>Termination</u> Regulated entities can terminate our contract with advance notice for Google's material breach after a cure period, change of control and Google's insolvency.	Ter
		In addition, regulated entities can elect to terminate our contract for convenience with advance notice, including if necessary to comply with law or if directed by a supervisory authority.	
		Google recognizes that regulated entities need sufficient time to exit our services (including to transfer services to another service provider). To help regulated entities achieve this, upon request, Google will continue to provide the services for 12 months beyond the expiry or termination of the contract.	Tra
Sectio	on 8 (Business continuity management)		
9.	Outsourced material activities are part of the institution's business continuity management. This entails that continuity measures must be taken, both at the service		Bus
	provider and at the financial institution, including exit planning, possibly in a joint effort with other financial institutions. This also involves periodic verification of continuity measures, where necessary with the service provider's active involvement.	Google recognizes that resilience is a key focus for regulated entities and supervisory authorities. Our <u>Strengthening operational resilience in financial services by migrating to</u> <u>Google Cloud</u> whitepaper discusses the continuing importance of operational resilience	

Google Cloud

Google Cloud Financial Services Contract reference

Definitions

Significant Developments

Data Incidents (<u>Cloud Data Processing</u> Addendum)

Ferm and Termination

Fransition Term

Business Continuity and Disaster Recovery

Google Cloud Mapping

#	Framework reference	Google Cloud commentary	G re
	1	1	—
		to the financial services sector, and the role that a well-executed migration to Google Cloud can play in strengthening it.	
		Google will implement a business continuity plan for the Services, review and test it at least annually and ensure it remains current with industry standards.	
		Refer to our " <u>Architecting disaster recovery for cloud infrastructure outages</u> " article for information about how Google Cloud is architected to minimize the frequency and scope of outages as well as an architecture planning guide that provides a framework for categorizing and designing applications based on the desired reliability outcomes.	
		In addition, information about how customers can use our Services in their own business contingency planning is available in our <u>Disaster Recovery Planning Guide</u> .	
		Exit planning	D
		We recognize that, whatever the level of technical resilience that can be achieved on GCP, regulated entities must plan for the scenario in which Google can no longer provide the service.	
		We support such exit plans through:	
		• Commitment to Open Source: many of our products and services are available in Open Source versions, meaning that they can be run on other Cloud providers or on-premise.	
		• Commitment to common standards: our platform supports common standards for hosting applications in virtual machines or containers, which can be replicated by alternative services on other Cloud providers or on-premise.	
		• Anthos multi-Cloud management: our multi-Cloud management product, <u>Anthos</u> , allows customers to run and manage an increasing range of services in the same way as on GCP across other Cloud providers or on-premise.	
		Refer to our <u>Engaging in a European dialogue on customer controls and open cloud</u> <u>solutions blog post</u> and our <u>Open Cloud page</u> for more information on our commitment to open source and common standards.	
	on 9 (Critical data)		

Google Cloud

Google Cloud Financial Services Contract reference

Data Export (<u>Cloud Data Processing Addendum</u>)

Google Cloud Mapping

#	Framework reference	Google Cloud commentary	G re
10.	If the financial institution has rules in place relating to confidentiality of specific data, the service provider must guarantee the confidentiality of data at at least the same level. The	This is addressed in the <u>Cloud Data Processing Addendum</u> where Google makes commitments to protect your data, including regarding security.	C
	institution must include the protection of critical data in its risk assessment. Agreements governing outsourcing must also include clauses pertaining to data protection. Financial institutions must also monitor the service provider's access to critical data, e.g. with the	Confidentiality of data	D P
	help of security logs or other monitoring instruments.	The confidentiality and integrity of data and systems when using a cloud service consists of two key elements:	
		The security of a cloud service consists of two key elements:	
		(1) Security of Google's infrastructure	
		Google manages the security of our infrastructure. This is the security of the hardware, software, networking and facilities that support the Services.	
		Given the one-to-many nature of our service, Google provides the same robust security for all our customers.	
		Google provides detailed information to customers about our security practices so that customers can understand them and consider them as part of their own risk analysis.	
		More information is available at:	
		 Our <u>infrastructure security</u> page Our <u>security whitepaper</u> Our <u>cloud-native security whitepaper</u> Our <u>infrastructure security design overview</u> page Our <u>security resources</u> page 	
		In addition, you can review Google's <u>SOC 2 report</u> .	
		(2) Security of your data and applications in the cloud	
		You define the security of your data and applications in the cloud. This refers to the security measures that you choose to implement and operate when you use the Services.	
		(a) <u>Security by default</u>	

Google Cloud Financial Services Contract reference

Confidentiality

Data Security; Security Measures (<u>Cloud Data</u> <u>Processing Addendum</u>)

Google Cloud Mapping

#	Framework reference	Google Cloud commentary	Go re
	•	•	
		Although we want to offer you as much choice as possible when it comes to your data, the security of your data is of paramount importance to Google and we take the following proactive steps to assist you:	
		• Encryption at rest. Google encrypts customer data stored at rest by default, with no additional action required from you. More information is available at: https://cloud.google.com/security/encryption-at-rest/default-encryption.	
		• Encryption in transit. Google encrypts and authenticates all data in transit at one or more network layers when data moves outside physical boundaries not controlled by Google or on behalf of Google. More information is available at https://cloud.google.com/security/encryption-in-transit.	
		(b) <u>Security products</u>	
		In addition to the other tools and practices available to you outside Google, you can choose to use tools provided by Google to enhance and monitor the security of your data. Information on Google's security products is available on our <u>Cloud Security</u> <u>Products</u> page.	
		(c) <u>Security resources</u>	
		Google also publishes guidance on:	
		 Security best practice Security use cases Security blueprints 	
		Access Management	
		The "Managing Google's Access to your Data" section of our <u>Trusting your data with</u> <u>GCP whitepaper</u> explains Google's data access processes and policies.	
		In addition, you can also monitor and control the limited actions performed by Google personnel on your data using these tools:	In Ad (C

Google Cloud Financial Services Contract reference

nternal Data Access Processes and Policies – Access Policy, Appendix 2 (Security Measures) (<u>Cloud Data Processing Addendum</u>)

Google Cloud Mapping

#	Framework reference	Google Cloud commentary	G re
		 Access Transparency is a feature that enables you to review logs of actions taken by Google personnel regarding your data. Log entries include: the affected resource, the time of action, the reason for the action (e.g. the case number associated with the support request); and data about who is acting on data (e.g. the Google personnel's location). Access Approval is a feature that enables you to require your explicit approval before Google support and engineering teams are permitted access to your customer content. Access Approval provides an additional layer of control on top of the transparency provided by Access Transparency. 	
Sectio	on 10 (Service level reports)		
11.	The financial institution must verify that the outsourced activities continue to comply with the performance and quality standards prevailing for internal execution of activities. The financial institution continuously monitors and assesses the adequacy of the services provided, in order to enable prompt recovery measures if necessary. These assessment must be based on a combination of quantitative and qualitative key performance indicators and on recent operational data provided by the service provider.	 The SLAs provide measurable performance standards for the services and are available on our <u>Google Cloud Platform Service Level Agreements</u> page. You can monitor Google's performance of the Services (including the SLAs) on an ongoing basis using the functionality of the Services. For example: The <u>Status Dashboard</u> provides status information on the Services. <u>Google Cloud Operations</u> is an integrated monitoring, logging, and diagnostics hosted solution that helps you gain insight into your applications that run on GCP. 	n Or
Sectio	on 11 (Assurance reports)		
12.	The outsourcing agreement must include the obligation for the service provider to provide assurance reports about its internal control framework at regular intervals. This can be done by means of an audit to be performed at the service provider on behalf of the financial institution. Or the service provider can provide an assurance report certified by an independent assurance provider. We expect outsourced activities to also fall within the scope of an institution's internal audit function.	Google recognizes that you expect independent verification of our security, privacy and compliance controls. Google undergoes several independent third-party audits on a regular basis to provide this assurance. Google commits to comply with the following key international standards during the term of our contract with you: ISO/IEC 27001:2013 (Information Security Management Systems) ISO/IEC 27017:2015 (Cloud Security) ISO/IEC 27018:2014 (Cloud Privacy) PCL DSS SOC 1 	1

Google Cloud Financial Services Contract reference

Services

Ongoing Performance Monitoring

Certifications and Audit Reports



Google Cloud Mapping

#	Framework reference	Google Cloud commentary	G re
			<u></u>
		 <u>SOC 2</u> <u>SOC 3</u> You can review Google's current <u>certifications and audit reports</u> at any time. <u>Compliance reports manager</u> provides you with easy, on-demand access to these critical compliance resources. 	

Google Cloud Financial Services Contract reference